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LOGARITHMIC SPEED SCALE

To find SPEED, place one point of dividers on distance run (in any unit) and the other on minutes run. Without changing divider spread, place right point on 60 and left point will then indicate speed in units per hour. Example: with 4.0 nautical miles run in 15 minutes, the speed is 16.0 knots

POLLUTION REPORTS

Report all spills of oil and hazardous substances to the National Response Center via 800-424-8802 (toll free), or to the nearest U.S. Coast Guard facility if telephone communication is impossible (33 CFR 153).

NOTE B

Buoys A, B, C and D mark the end Points of lines along which dummy mines are placed at various times.

CAUTION

CHANGES in BUOYAGE

Mariners are advised that authorized aids to navigation are being changed to conform to maritime standards of the International Association of Lighthouse Authorities. Maritime Buoyage System, Region B. Significant changes are: black port hand buoys to green, black and white vertically striped buoys to red and white vertically striped buoys, and lateral lights from white to red or green as appropriate. Changes to aids to navigation will be announced in the Defense Mapping Agency Hydrographic/Topographic Center weekly Notice to Mariners and the U.S. Coast Guard Local Notice to Mariners.

RADAR REFLECTORS

Radar reflectors have been placed on many floating aids to navigation. Individual radar reflector identification on these aids has been omitted from this chart.

PANAMA CITY HARBOR CHANNEL, DEPTHS

CORPS of ENGINEERS REPORTS TO AUGUST 2, 1988

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NMI)	DEPTH MLLW (FEET)
PANAMA CITY HARBOR ENTRANCE CHANNEL	27.8	30.3	24.9	7-88	400-300	2.1	34-32

NOTE: CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION.

PRODUCED BY COMPUTER ASSISTED METHODS

SECTION BASE CHANNEL
21 feet reported 1963

GRAND LAGOON CHANNEL
The controlling depth was 3 feet for a width of 100-150 feet.
July 1988

ABBREVIATIONS (For complete

Aids to Navigation (lights are w
AERO aeronautical
Al. alternating
B black
Bn beacon
C can
DIA diaphone
E int equal interval (1sc)
F fixed
Fl flashing

Bottom characteristics:
Bldrs boulders
bk broken
Cy clay

Miscellaneous:
AUTH authorized
ED existence doubtful
Wk, rock, obstruc
Rk Rocks that cover and
COLREGS International
Demarcation

Hydrogra
Charting and
Engineers,

Comm
inform

Long Beach Resort
Panama City Beach
Allanton Bayou
St Andrew
Buena Vista Pt
Hospital
Lake Caroline
PANAMA CITY
Johnson Bayou
Bear Pt
Magnolia Beach
Cable Area
STANDPIPE
Courtney Pt
Bunkers Pt
Bunkers Cove
Beckrich Pt
Smacks Bayou
Shallowater Bayou
Frankford Bayou
Palmetto Pt
Davis Point
St Andrews State Park
Biltmore Beach
GRAND LAGOON
SHELL ISLAND
GULF OF MEXICO
Numerous obstructions Fish Haven
Obstruction Fish Haven (depth min depth 62ft)
Obstn Fish haven depth min depth 55ft
Obstn Fish haven depth min depth 66ft
SAFETY FAIRWAY (66,200) (see note A)
CAUTION MISSILE TEST AREA 334,720 (see note A)
DUMP SITE (dredged material) (see note C) (depths from survey of 1977)
RESTRICTED AREA 334,780 (see note A)
COLREGS DEMARCATION LINE (80.813e) (see note A)
"BUOY" WD (A) WHISTLE
TANK
TOWER
RADIO TOWER
MAST
TV TR
R TR (WGNE) 1480 KHz
FIXED BRIDGE HOR CL 23 FT VERT CL 6 FT
FIXED BRIDGE HOR CL 28 FT VERT CL 6 FT
BASCULE BRIDGE HOR CL 40 FT VERT CL 7 FT
HATHAWAY FIXED BRIDGE HOR CL 100 FT VERT CL 50 FT
Pipeline Area
Submarine Area
Ramp
Pier
Piling
Dolphin
Marker PA
Marker Pile
Subm pile
Subm piles
Subm pile dolphin
Subm pile & dolphin
Subm pile & piles
Subm pile & fender
Subm pile & fenders
Subm pile & fender piles
Subm pile & fender piling
Subm pile & fender piles
Subm pile & fender piling
Subm pile & fender piles
Subm pile & fender piling

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CONTINUED ON CHART 11390

UNITED STATES - GULF COAST
FLORIDA

ST ANDREW BAY

Mercator Projection
Scale 1:25,000 at Lat. 30°06'
North American Datum of 1983
(World Geodetic System 1984)

SOUNDINGS IN FEET
AT MEAN LOWER LOW WATER

HEIGHTS
Heights in feet above Mean High Water

HORIZONTAL DATUM
The horizontal reference datum of this chart is North American Datum of 1983 (NAD 83), and for charting purposes is considered equivalent to the World Geodetic System 1984 (WGS 84). Geographic positions referred to the North American Datum of 1927 must be corrected an average of .727" northward and .258" eastward to agree with this chart.

CAUTION
Improved channels shown by broken lines are subject to shoaling, particularly at the edges.

CAUTION
Temporary changes or defects in aids to navigation are not indicated on this chart. See Notice to Mariners.

SCALE 1:25,000
Nautical Miles
Yards
Meters

ABBREVIATIONS (For complete list of Symbols and Abbreviations, see Chart No. 1.)

Aids to Navigation (lights are white unless otherwise indicated):
AERO aeronautical; Al alternating; B black; Bn beacon; C can; DIA diaphone; E Int equal interval (Iso); F fixed; Fl flashing; G green; Gp group; IQ interrupted quick; Iso isophase (E Int); LT HO lighthouse; M nautical mile; m minutes; MICRO TR microwave tower; Mkr marker; Mo morse code; N nun; OBSC obscured; Oc occulting; Or orange; Q quick; R red; Ra Ref radar reflector; R Bn radiobeacon; R TR Tr radio tower; Rot rotating; s seconds; SEC sector; St M statute miles; W white; VQ very quick; W white; WHIS whistle; Y yellow

Bottom characteristics:
Blds boulders; bk broken; Cy clay; Co coral; G gravel; Grs grass; Gy gray; h hard; M mud; Oys oysters; Rk rock; S sand; so soft; Sh shells; sy sticky

Miscellaneous:
ALTH authorized; ED existence doubtful; Obstn obstruction; PA position approximate; PD position doubtful; Rep reported; Subm submerged; Wk wreck, rock, obstruction, or shoal swept clear to the depth indicated; 12 Rocks that cover and uncover, with heights in feet above datum of soundings; COLREGS International Regulations for Preventing Collisions at Sea, 1972.
Demarcation lines are shown thus: ---------

AUTHORITIES
Hydrography and topography by the National Ocean Service, Charting and Geodetic Services with additional data from the Corps of Engineers, Geologicor Survey, and U.S. Coast Guard.

SUPPLEMENTAL INFORMATION
Consult U.S. Coast Pilot 5 for important supplemental information.

AIDS TO NAVIGATION
Consult U.S. Coast Guard Light List for supplemental information concerning aids to navigation.

TIDAL INFORMATION

Place Name	Height referred to datum of soundings MLLW: Mean Higher High Water (feet)	Mean High Water (feet)	Mean Low Water (feet)	Extreme Low Water (feet)
Channel Entrance	1.3	--	--	-2.0
Panama City	1.3	--	--	-2.0
Parker	1.5	--	--	-2.0

WARNING
The prudent mariner will not rely solely on any single aid to navigation, particularly on floating aids. See U.S. Coast Guard Light List and U.S. Coast Pilot for details.

NOTE A
Navigation regulations are published in Chapter 2, U.S. Coast Pilot 5. Additions or revisions to Chapter 2 are published in the Notices to Mariners. Information concerning the regulations may be obtained at the Office of the Commander, 7th Coast Guard District in Miami, Fla., or at the Office of the District Engineer, Corps of Engineers in Jacksonville, Fla. Refer to charted regulation section numbers.

CAUTION
Only marine radiobeacons have been calibrated for surface use. Limitations on the use of certain other radio signals as aids to marine navigation can be found in the U.S. Coast Guard Light Lists and Defense Mapping Agency Publication 117.
Radio direction-finder bearings to commercial broadcasting stations are subject to error and should be used with caution.
Station positions are shown thus:
⊙(Accurate location) ⊙(Approximate location)

NOAA VHF-FM WEATHER BROADCASTS
The National Weather Service station listed below provides continuous marine weather broadcasts. The range of reception is variable, but for most stations is usually 20 to 40 miles from the antenna site.
Panama City, Fla. KGG-67 162.55 MHz

NOTE S
Regulations for Ocean Dumping Sites are contained in 40 C.F.R. Parts 220-229. Additional information concerning the regulations and requirements for use of the sites may be obtained from Environmental Protection Agency (EPA). See U.S. Coast Pilots appendix for addresses of EPA offices.

CONTINUED ON CHART 11389

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U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SERVICE

SOUNDINGS IN FEET

FATHOMS 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17
FEET 6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96 102
METERS 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

St Andrew Bay
SOUNDINGS IN FEET - SCALE 1:25,000

11391

Assigned to promote safe navigation. The mariners to submit corrections, additions, or to the Director, Charting and Geodetic Service, NOAA, Rockville, Maryland 20852

This nautical chart was produced with the aid of the National Ocean Service's computer-assisted cartographic compilation system.